IN THE CLAIMS

Please amend claims 1, 11, 16, 93, 94 and 96-98 as follows:

1.   (Currently Amended) A system for maintaining a background model of an image sequence having a plurality of pixels, comprising:

a pixel processing module that processes the image sequence on a pixel scale;

a prediction module that provides history-based predictions for a value of each of the plurality of pixels, the history-based predictions based on a history of actual pixel values and a history of predicted pixel values; and

at least one refinement module that processes the image sequence on a spatial scale other than the pixel scale.

2.   (Original) The system of claim 1, wherein the pixel processing module further comprises determining an initial background model and providing an initial pixel assignment to each of the plurality of pixels.

3.   (Original) The system of claim 1, wherein a first refinement module is a region processing module that processes the image sequence on a regional scale.

4.   (Original) The system of claim 3, wherein the region processing module further comprises considering a relationship between at least some of the plurality of pixels to provide pixel assignment.

5.   (Original) The system of claim 3, wherein a second refinement module is a frame processing module that processes the image sequence on a frame scale.

6.   (Original) The system of claim 5, wherein the frame processing module further determines a background model that most accurately represents an actual background of the image sequence and performs one of: (a) retaining a current

2 of 24